

\$1B one year early

The U of A keeps its promise to obtain a billion dollars in external research funding.

2

Commercialization: the fourth mission?

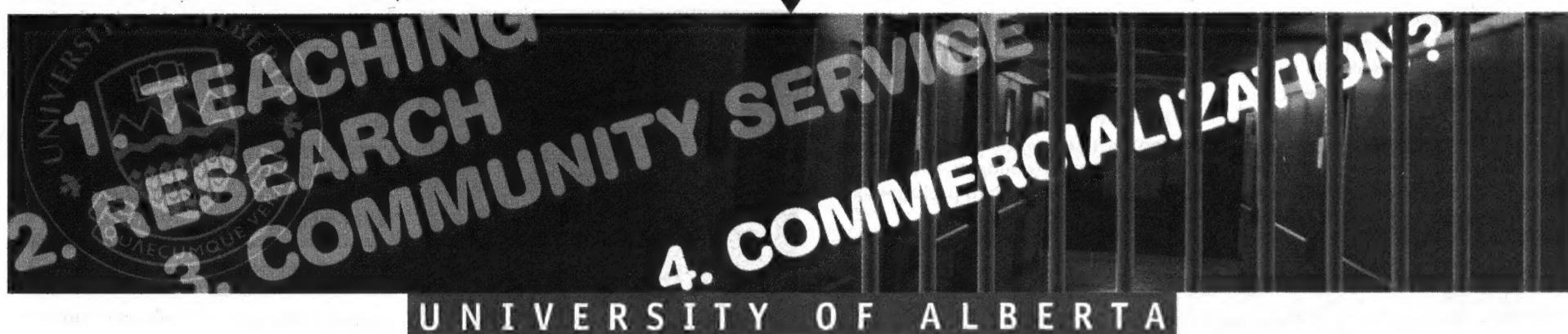
A federal report calls for commercialization to be the fourth mission of Canadian universities. Academics in basic science and humanities fear losing control over their research.

3

Fun on the farm

Food and U Day drew thousands curious about agriculture, food, nutrition, and physical health.

6



UNIVERSITY OF ALBERTA

folio

Volume 36 Number 19

JUNE 4, 1999

<http://www.ualberta.ca/folio>

Mixed reaction to provincial cabinet shuffle

Post-secondary education combined with K-12; Innovation and Science strengthened

By Sheila Soder

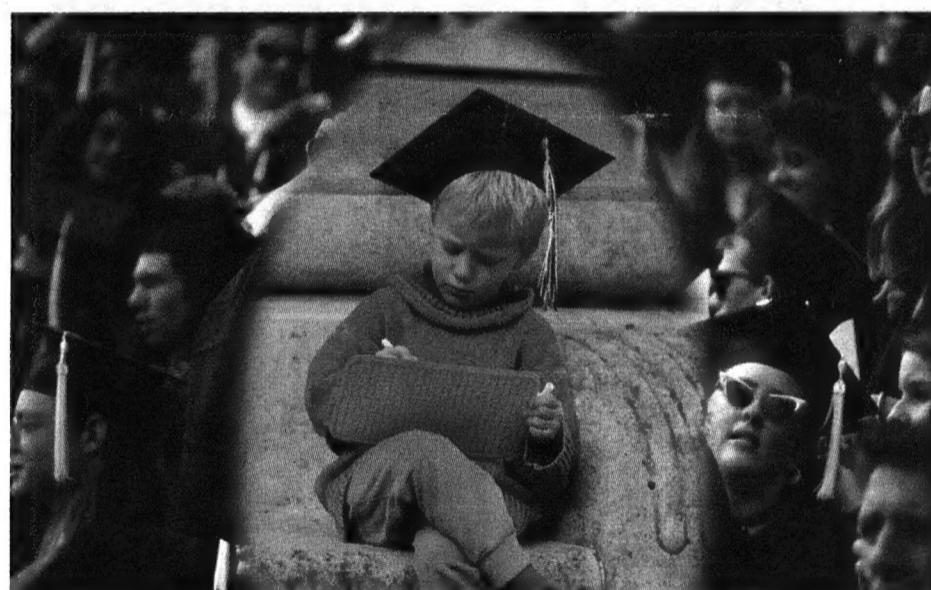
Concern over university issues getting lost in the "super-education" Ministry of Learning and delight at the creation of the new Ministry of Innovation and Science are the most common campus reactions to Premier Klein's recent cabinet redesign and shuffle.

"I'm cautiously optimistic and I actually think that it may be good for us, although a lot of water has to go under the bridge before we can be sure," says Dr. Doug Owram, vice-president (academic) and provost. "[The merger] reflects the fact that education has become, with health, one of the big priorities of the government, and they are putting education together in part to deal with it as a single priority."

A cabinet shuffle and ministry reorganization May 25 saw the creation of a new Ministry of Learning and a strengthened Ministry of Innovation and Science, among other departments. The Ministry of Learning comprises K-12 and the post-secondary half of the former Ministry of Advanced Education and Career Development (AECD). Dr. Lyle Oberg, an alumnus of the U of A's medical school, takes over the new ministry. Former AECD Minister Clint Dunford moves into the new position of Minister of Human Resources and Employment, which combines the previous portfolios of labor, and family and social services.

Campus reaction is unanimously supportive of the expansion of the Ministry of Innovation and Science under Dr. Lorne Taylor, a U of A alumnus with a PhD in education.

"The government has moved to put all science, research and technology-based systems under one ministry which en-



The massive size of the new Ministry of Learning makes post-secondary educators nervous. Will advanced education issues get lost?

bles the university to have one point of contact with the government [in these areas]," says Dr. David Lynch, dean, Faculty of Engineering.

The university's Industry Liaison Office also sees the expansion as positive. Rand Harrison, manager of strategic partnerships and networks, sees the new ministry as "simply strengthening and putting into tighter focus the relationship and interaction [with government] in our core."

However, the sheer size of the new education portfolio is raising eyebrows among post-secondary educators. Says Owram: "In a huge ministry like this, is

there the danger that we will get lost?" That's the question many campus colleagues are asking these days.

Despite reassurances this will not happen, Owram is still uneasy "because training a PhD in biochemistry is different than training a kindergarten child and the needs of the systems are quite different."

Watching carefully, but remaining hopeful, is Dr. Larry Beauchamp, dean of the Faculty of Education. "Although it works well in other jurisdictions with which I am familiar, the merging of the two ministries

is going to be huge." Beauchamp says his

faculty has worked more closely with the former Ministry of Education and is aware of "how busy a portfolio that has been in the past. It will be a matter of time."

Other campus faculty are more direct with their apprehensions.

"My first reaction is to feel concern for the absence of the recognition of the important role of advanced education," says Dr. Patricia Clements, dean of the Faculty of Arts. "I would hope the government would recognize the large and increased role post-secondary institutions has in the quality of life and economics of the province. We will need to wait and see how this plays out."

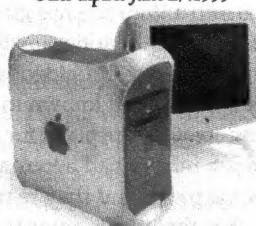
The dean of engineering agrees. While Lynch says there is a certain logic to combining all educational activities there are a great many differences to consider as well. "As a long established university, the U of A carries with it issues of facilities for replacement and it is important those needs of larger institutions do not get lost in those of the smaller schools," says Lynch.

Laura Bonnett, president of the Graduate Students' Association, is also uneasy with the big change. "It is easy to look at the bottom line and think that there is enough money going into education when the reality is funding continues to be cut or is packaged off in very different means than in the past."

Representatives for the undergraduate Students' Union were unavailable for comment. ■

Please see 'Über-education ministry not a problem' on page 2 for President Rod Fraser's reaction to the cabinet shuffle and government reorganization in education.

Offer expires June 27, 1999



Breakthrough computer, breakthrough offer.

Choose between two great offers on one great computer when you purchase a

Power Macintosh G3



UNIVERSITY OF ALBERTA
MICROSTORE

Students' Union Bldg.

Monday-Friday 8:30 am- 4:30 pm

Phone: 492-1495

www.bookstore.ualberta.ca

mdc@sparky.bookstore.ualberta.ca

Über-education ministry not a problem, says president

By Lucianna Ciccocioppo

Despite campus-wide concerns about a new Ministry of Learning, rolling the post-secondary education sector in with K-12 schooling and assigning it to new cabinet Minister Lyle Oberg, President Rod Fraser isn't losing any sleep over it.

In fact, the government organizational reshuffling could be a plus for the U of A. "Maybe tying ourselves to a sector that's doing well can be a good thing," says Dr. Fraser.

"I've heard that argument."

And it fits well with the Campus Alberta initiative of a seamless education system in the province, a vision in place long before he took the helm at the U of A, says Fraser.

"This thinking goes back to the beginning of the decade. We crossed the bridge a long time ago to work closely with our peer post-secondary educational institutions."

In Edmonton, a capital region group of Campus Alberta, meeting for the last four years, has included the superintendents of the public and Catholic school boards.

"We've seen it as our advantage to work together as a group of seven," says Fraser.

But he also realizes there are concerns that, in a super-ministry of education, "a given section might be too small to get its head above the horizon." The president is confident, however, the impact of one of Canada's largest research-intensive universities will not easily fall to the wayside.

"In the post-secondary sector in Alberta, we're capable of articulating well

our case for increased investment in the learning environment for our students and the research environment to power forth the Alberta economy."

All sectors of education share the challenges of working with large, human capital-driven operating budgets, such as finding the appropriate reward packages for academic and support staff.

The key difference, says Fraser, lies in the research and scholarship activities of universities, the cumulative impact of which extends beyond campus borders.

The challenge for the university is taking its message out to all MLAs, adds Fraser, and more important, to all the citizens of Alberta, so people think of this institution as "our U of A."

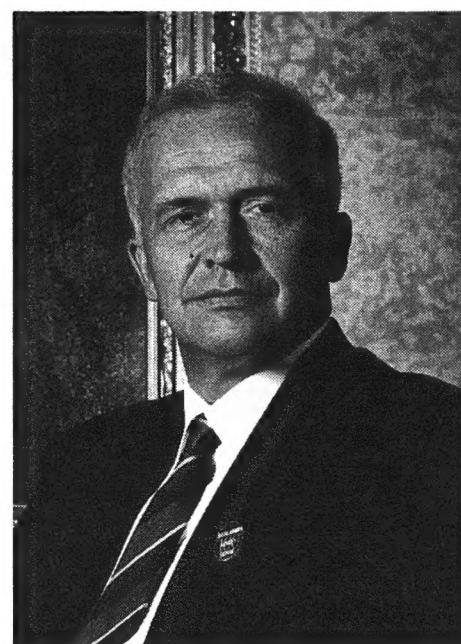
Not an easy feat when facing some tough statistics. In 1960, only six per cent of the population had a university degree. Today, that figure is more than 18 per cent.

It means, however, 82 per cent of Albertans have *not* experienced university.

This contrasts to the 87 per cent of Albertans who see a physician at least once a year or the 100 per cent who have gone through the school system at some point, from kindergarten up to Grade 12.

So how does the U of A get its message for reinvestment out?

"There's no panacea," says Fraser. The key is talking to individuals, Rotary and Kinsmen clubs, chambers of commerce



President Rod Fraser

individual. We've got the taxpayers of Alberta to reach, who talk to their MLAs; we have business people and the cabinet, too," he says. "The flip side is we have yet one more person in cabinet—our ex-minister—who understands our challenge. Now we have a chance to talk in detail to another member of cabinet." Says Fraser: "What's so critical is the nature of the minister and his or her attitudes and the civil service that supports the minister."

At the same time, Fraser is pleased to see a beefed-up Ministry of Innovation and Science, with all science, research and technology-based systems under one ministry. Lorne Taylor remains the head of this portfolio, which bodes well for the U of A, says Fraser. The U of A cannot solely focus on the Ministry of Learning, adds Fraser. "We need three or four ministries working closely together: learning, innovation and science, economic development, and human resources, among others." ■

U of A reaches \$1 billion milestone—one year early

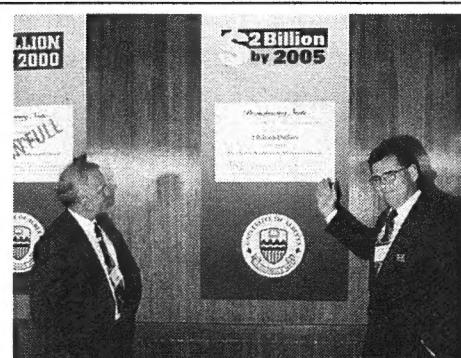
By Roger Armstrong

The University of Alberta has more than a billion reasons to celebrate. The university reached its goal of attracting \$1 billion in external research funding a full year ahead of schedule. In 1994, the U of A made a commitment to attract a cumulative total of \$1 billion by 2000 between 1989 and 2000.

"This \$1 billion reflects the quality of research and researchers at the University of Alberta and their ability to attract funding from outside sources," said Dr. Roger Smith, vice-president (research and external affairs).

The U of A continues to increase its share of funding from the three major research councils in Canada—the Medical Research Council, Natural Sciences and Engineering Research Council and the Social Sciences and Humanities Research Council. This is occurring while other major universities in Canada are receiving proportionally less funding from the tri-councils.

The \$1 billion in research funding allows researchers to purchase of state-of-the-art equipment, attract the best and



President Rod Fraser and Minister of Innovation and Science Lorne Taylor take a look at the U of A's promissory note, which commits an additional \$1 billion in external research dollars by 2005 for a total goal of \$2 billion.

brightest faculty and students, and bring U of A technologies to the marketplace. It means further growth in research programs, which has a broader impact on the greater community, creates more jobs and potentially more U of A spin-off companies.

The U of A now plans to build upon its success in achieving this milestone by

committing to attract another \$1 billion in external research funding by 2005, said President Rod Fraser.

The university also released a new publication, *University of Alberta: Its Economic Impact*. In it are facts such as: the U of A is responsible for the existence of 40,000 jobs in Alberta (approximately one in every 38 working Albertans). It also quotes statistics from Economic Development Edmonton which estimates more than half of the conventions and conferences held in the capital region relate to the U of A. For copies of the publication, e-mail david.norwood@ualberta.ca or view www.ualberta.ca/~univhall/vp/vprea/.

Joining President Rod Fraser, Chancellor Lois Hole, Vice-President (Research and External Affairs) Roger Smith and board members in the milestone celebration at the Faculty Club May 31 were Western Economic Diversification Deputy Minister Oryssia Lennie, also a U of A board member, Minister of Innovation and Science Lorne Taylor, Edmonton Councilor Larry Langley, various mayors from the region, faculty and staff. ■

Web Watch

By Randy Pavelich

Office of the Registrar and Student Awards

<http://www.registrar.ualberta.ca>

After a recent major makeover, this site is now much more visually appealing. It's difficult to build a site that adequately represents an office with such a complex set of functions, but they've done a good job here. Major topics are listed up front and the new-for-this-year feature is the online application form.

Instructor's Guide to Internet Plagiarism

<http://www.ab.org/gregg/>

A service to educators instead of ethically-challenged students, this site has a number of good tips to help spot fraud. Also listed are a handful of the cheating-related sites out there. The site's construction is somewhat rudimentary but the service it provides is valuable.

GEM Hosting: An example of how not to build a Web site

<http://www.hostbiz.com>

Let's be generous and describe this site as 'visually challenging.' Everything that should *not* go into a Web site has gone in here and the result is a chaotic, amateurish mess. The colors are beyond hideous and every cheesy animated gif known to humanity (plus a few created especially for this site) has been thrown in. I've had a look at the designer's home pages and they're not any better... the ones that work, anyway. ■

folio

Volume 36 Number 19

OFFICE OF PUBLIC AFFAIRS,
400 ATHABASCA HALL
UNIVERSITY OF ALBERTA,
EDMONTON, ALBERTA T6G 2E8

LEE ELLIOTT: Acting Director, Office of Public Affairs

LUCIANNA CICCOCIOPPO: Acting Managing Editor

GEOFF MCMASTER: Writer

Contributors:

Roger Armstrong, Trevor Buckle, Dan Carle, Anna Fodchuk, Carol Hills, Randy Pavelich, June Ross, Sheila Soder

Graphic Design:

Susan Hunter, Marion McFall, Annie Schroeder

Folio's mandate is to serve as a credible news source for the University community by communicating accurate and timely information about issues, programs, people and events and by serving as a forum for discussion and debate. Folio is published 20 times per year.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in Folio do not necessarily reflect University policy. Folio contents may be printed with acknowledgement.

Inquiries, comments and letters should be directed to Lucianna Ciccocioppo, acting managing editor, 492-0439 lucianna.ciccocioppo@ualberta.ca

Display advertising Deadline: 3 p.m. one week prior to publication Katherine Irwin, 492-0444

Classified Ads Deadline: 3 p.m. one week prior to publication Cora Doucette, 492-0436

Talks Deadline: 9 a.m. one week prior to publication Brenda Briggs, 492-5044 Fax: 492-2997 public.affairs@ualberta.ca

ISSN 0015-5764 Copyright 1999

University
of
Alberta



...it makes sense

The fourth mission: Commercialization?

A federal report on university research commercialization gets thumbs up—and thumbs down—from academics across campuses

By Lucianna Ciccocioppo

A report presented to the Prime Minister's Advisory Council on Science and Technology advocating greater emphasis on commercialization for universities has been creating a buzz in the academy.

A business-leaning advisory council of nine members concluded federal research grants should require disclosing any innovations that might have consumer application. Researchers, including grad students and post-doctoral fellows, who don't comply risk having their funding cut off.

Public Investments in University Research: Reaping the benefits calls for "innovation" to become the fourth mission of Canadian universities. Innovation is defined as "the process of bringing new goods and services to market, or the result of that process." Alternatively, it suggests universities adopt innovation as an element of the current three missions: teaching, research and community service.

The final report also recommends that in universities where intellectual property (IP) ownership falls to the researchers, the IP must be assigned to the university for possible commercialization.

The first recommendation underlines the expectation "that if any commercial activity is created from the results of research supported by the Canadian public, that commercial activity must bring a benefit to Canada. Presently, university researchers are under no obligation to act in the national interest if they decide to commercialize IP created with federal funding."

The panel acknowledged it was entering controversial territory with its proposals on commercial exploitation of publicly funded research. And it pointed to Canada's slipping standard of living relative to the US and other countries over the last 20 years. It proposed measures, therefore, to stem the trend, "actions that will greatly increase Canada's ability to deploy the intellectual property created in university research to contribute to wealth creation in the Canadian economy."

Not surprisingly, reactions in the academy are mixed.

"The report is a good basis for discussion in the research community and other research communities across Canada," said Dr. Roger Smith, vice-president (research and external affairs). "It identified issues that needed to be identified." Smith pointed to the importance of standardizing ownership and treatment of IP across Canadian universities, "to provide some commonality companies can count on."

As for embracing commercialization as a fourth mission, "We certainly view this as an activity in which the University of Alberta is engaged...within a number of our faculties, certainly in medicine and engineering," said Smith.

"Faculties will have to discuss if any further modifications are warranted. But it's something we've already recognized." Smith emphasized the U of A incorporates innovation and "contributing to the greater good" through its teaching, research and community service missions.

Still, the increased commercialization emphasis, whether explicit or implicit, makes some academics nervous, particularly a basic chemistry researcher such as



Dr. Roger Smith emphasized the U of A incorporates innovation and "contributing to the greater good" through its teaching, research and community service missions.

award-winning Dr. John Vederas.

"The university is one of the few places where curiosity-driven research, or pure research, can be pursued. To make universities adjunct to companies undermines its purpose and ensures novel, unexpected discoveries won't be found," said Vederas.

"This is a deeply flawed report, based on questionable data and selective anecdotal evidence to support untenable conclusions," said Dr. Bill Graham, president, Canadian Association of University Teachers. "The recommendations would jeopardize socially valuable research that may not be profitable, while encouraging research that makes money for the private sector but may be trivial," said Graham, who is also president of the University of Toronto Faculty Association. He pointed to the possible commercial gains to be made in

engineering fruits and vegetables to have longer shelf lives versus the capability of genetic engineering to eradicate foot-and-mouth disease in the Third World.

"It makes sense to recapitalize on some kinds of intellectual property developed through federally funded university research, and so there is much to support in the report," said Dr. Stephen Slemmon, associate dean (research) for the Faculty of Arts. "But at the same time, we have real

concerns with the report's promulgation of a single definition of IP across the enormous range of research activities that take place within the university, one based on 'possible commercial gain.'"

Scholarly articles and books are excluded from the report's IP definition, "but it does not think through the implications its proposals will have on research in the fine arts," said Slemmon. "Federally funded research could play an indirect role in staging a new play at the Timms Centre, or in the composition of a new musical work, or in the development of a new technique in print-making. How will the proposals in this report, if implemented, affect these activities?"

"The report is a realization that universities have a very important role to play in the new knowledge-based economy," said Dr. Jim Murray, U of A senior associate vice-president (innovation and partnerships), and a member of the report's expert panel. According to Murray, innovation has been occurring on a "de facto basis" at Canadian universities, but the performances have not been exemplary. Innovation implies more than the commercial context, explained Murray, and is left up to universities to interpret.

More important, "the thrust of the report is not entirely about commercialization but also providing additional funding for all university research. You can't have innovation without the basic scientific process." Said Murray: "Instead of fearing the report, researchers should be clapping."

It would have been prudent to have

some active researchers on the expert panel, pointed out Wayne Renke, president, Association of Academic Staff (AASUA). The members included six from industry, two with technology-transfer backgrounds and one from NSERC. Not a fatal situation, said Renke, but the lack of consultation with local academic staff associations is.

"The consultation process was highly selective, highly irregular and highly inadequate," said Renke. "The panel recommendations, in my opinion, are illegitimate. They amount to interference with university autonomy. They interfere with university self-governance and collective agreements...regarding changes to intellectual property."

What Renke found most disturbing, however, was "the repeated reference to the Canadian national interest." The panel recommended the federal government require recipients of federal research dollars work to obtain the greatest benefit to Canada.

"There are McCarthyite resonances to that. What's the implication, then? That we're not doing that? That we're agents of foreign powers? It's extraordinary to take some kind of oath to work for the benefit of Canada. That's what we've been doing at the U of A for many years," said Renke.

"These are starting point issues," said Dr. Smith. "We need to talk about these issues in our community, with our researchers and grad students. We'll try to set up a forum to allow that."

It should be a very interesting forum. ■

Want to kick it up a notch?

Martial arts fitness craze available at Campus Recreation

By Carol Hills, associate director, Campus Recreation

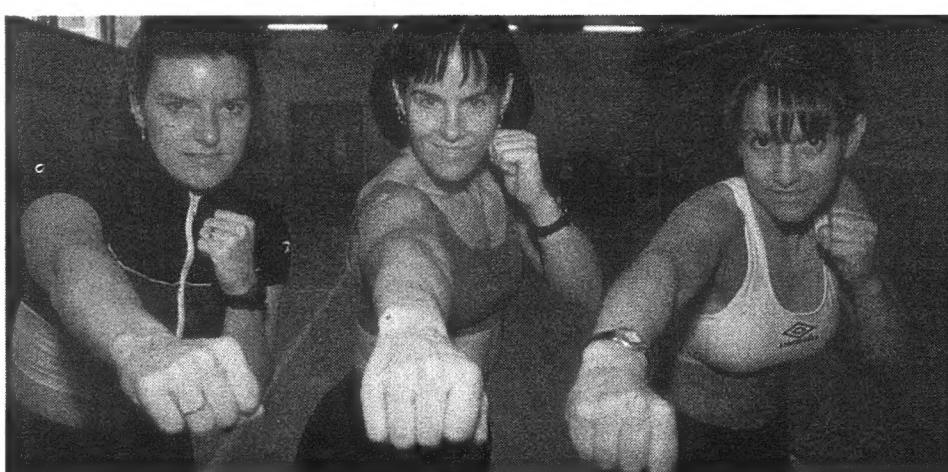
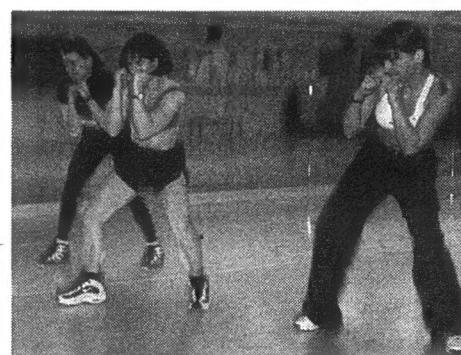
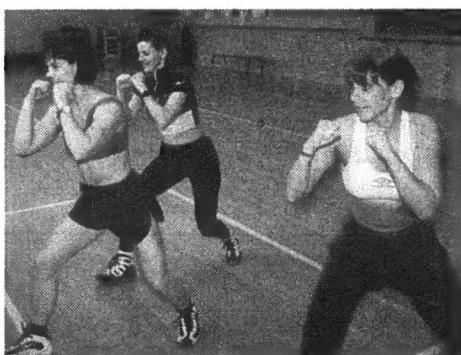
H ave you heard about Tae Bo, cardio kickboxing and aerobox? Not sure what these fitness classes are, how they differ from each other or traditional martial arts? Join the club.

Due to the popularity of Billy Blank's Tae Bo infomercials and the kickboxing workouts on TV's *Ally McBeal*, Campus Recreation has been inundated with requests for fitness workouts using movements from martial arts and boxing. Two types of physical activity opportunities are now converging to provide more variety for individuals looking for something different in a fitness class.

The latest craze in fitness incorporates martial arts movements to create a fitness class that improves overall fitness as the primary goal. Classes do not involve in-depth instruction on martial arts, self-defense or combative techniques. Rather, various punching and kicking moves are used for variety to improve cardio-respiratory endurance, muscular strength and flexibility.

These fitness classes are not new to the University of Alberta. In fact, Campus Recreation has offered them since 1995. Lana Asuchak, a fitness instructor with Campus Recreation, first noticed the trend at a fitness conference in 1994. Asuchak saw the workout as a great complement to the fitness and lifestyle courses traditionally offered on campus.

"It provides a great way to relieve stress and empower the participants. It's easy to follow and appeals to a wide range of age groups for both men and women," says Asuchak. After specialized training, Asuchak was qualified to lead these classes and her's continue to be some of the most popular on campus. She incorporates aerobics choreography with shadow boxing and circuits, using a variety of equipment, including bags, gloves and skipping ropes. A number of other campus fitness leaders have since been trained to lead the classes.



Punch it out: Carol Hills, Lana Asuchak and Cheryl Cook know the latest moves in martial arts fitness.

"The classes seem like they will be more fun than an aerobics class, incorporating more powerful and dynamic moves but still providing a good cardio workout," says Maureen Wiens, assistant supervisor of aquatics. These sentiments were echoed by her colleague, Shannon Slack, a lifeguard and swimming instructor for the U of A Aquatics Department: "I have dropped in to a few aerobics classes before but these classes seem like they might be more interesting and provide something different. I heard it was a great workout."

Individuals interested in taking up the challenge of Tae Bo, aerobox or cardio kickbox should be aware of a few essential

components. Class organization should generally follow the organization of a typical fitness class with a warm-up, cardio conditioning component, muscular strength and endurance exercises, flexibility exercises and a cool-down. Classes may involve following the instructor—similar to traditional aerobics classes—or could include circuit training, where several exercise stations are provided for individuals to use during class.

The instructor should accommodate individuals at various fitness levels, and with varying degrees of flexibility and strength. People should be encouraged to participate at a level comfortable for them.

CAMPUS FITNESS & LIFESTYLE PROGRAM

- Tai Box/Aerobox/Kickboxing: These fitness classes offer the same type of workout by utilizing movements from boxing, kickboxing and martial arts. In depth instruction on martial arts technique is not provided, but rather the focus is upon performing movements continuously to receive the associated fitness benefits.
- T'ai Chi: T'ai Chi is a series of gentle move and balances that require total concentration. It teaches balance and body control while improving your muscle tone.

CAMPUS RECREATION MARTIAL ARTS SPORTS CLUBS

- Aikido/Judo/Karate/Kung Fu/Tae Kwon Do: The martial arts clubs focus on learning and performing techniques, self-defense and forms but also help improve fitness, self-discipline and self-confidence.

NON-CREDIT INSTRUCTION PROGRAM

- Self-Defense for Women: Taught by women for women, this program is a practical introduction to the basic concepts of women's self-defense training. The fundamentals of sound physical conditioning are combined with techniques that are simple, direct and effective.

>> quick facts

That means all participants should not be doing high kicking movements. Although these classes do not focus on marital arts or boxing techniques, proper and clear instruction of the movements should be provided. Movements should not cause any discomfort or pain.

Ready to take the plunge? Campus Recreation currently offers aerobox, Tai Box and kickboxing. For more information, call 492-2555. ■

Public affairs and alumni affairs land national awards

The U of A received six awards from the Canadian Council for the Advancement of Education (CCAE) 1999 Prix D'Excellence program. This program acknowledges outstanding work in alumni relations, development and public relations. Awards will be given out at the CCAE annual conference, June 13-15, 1999 in St. John's, Nfld.

University of Alberta winners:

- Gold – Best Institutional Annual Report: U of A's Annual Report to the Community, produced by Public Affairs.

- Gold – Best Alumni Special Event: Reunion Weekend, organized by Alumni Affairs.
- Gold – Best Magazine: *New Trail*, published by Alumni Affairs.
- Silver – Best Writing: "Making the Most of Milk" by Rick Pilger, Alumni Affairs.
- Silver – Best Year-long Special Event: 90th Anniversary Celebrations, coordinated by Public Affairs.
- Bronze – Best University Newspaper: *Folio*, published by Public Affairs.

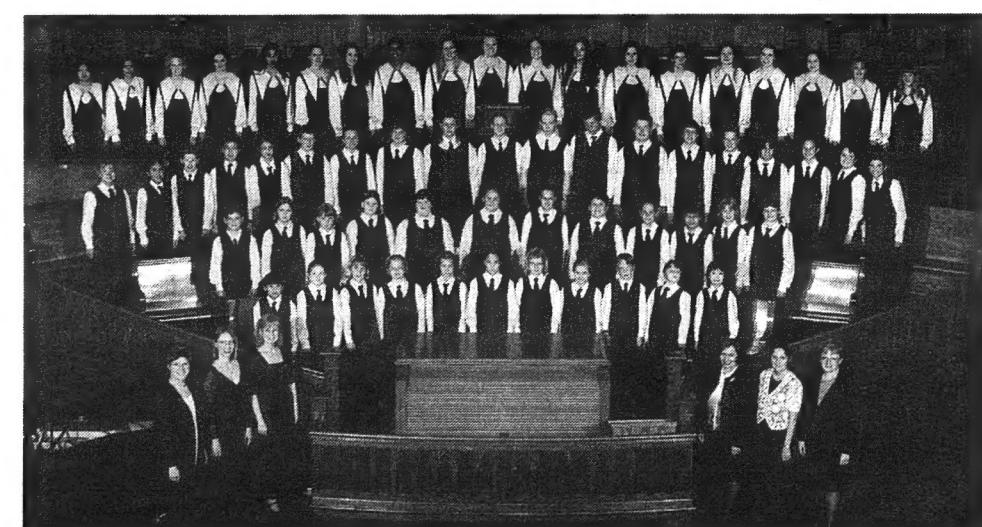
Department of Cell Biology and Anatomy splits

The Faculty of Medicine and Dentistry have restructured the existing Department of Cell Biology and Anatomy into the Department of Cell Biology and the faculty Division of Anatomy.

The faculty looked at the changes after experiencing difficulty across Canada and North America in maintaining the profile of anatomy, which in turn led to difficulty in recruiting new faculty to the area. Many anatomy departments were being added

onto other areas, such as surgery, cell biology, radiology or physiology. As a result, many anatomy programs were losing "standing and profile," according to the board's executive summary.

The new Division of Anatomy will be primarily a teaching division for students within the Faculty of Medicine and Dentistry and other health-sciences faculties. The Board of Governors approved the move at its last meeting, May 7. ■



Faculty of Education Youth Choirs and their directors.

Sing your heart out!

Auditions coming up for Faculty of Education Youth Choirs

Edmonton's award-winning Faculty of Education Youth Choirs are seeking new members to join them in September, 1999.

The choirs' exciting eighth season has included two performances with the Edmonton Symphony Orchestra for the Alberta Ballet's performance of *The Nutcracker*, two major concerts, performances at the Alberta Choral Federation's *Choralfest* and a spectacular concert in the rotunda of the Alberta Legislature Building.

The Faculty of Education Youth Choirs provide not only choral experiences for young people in the community but also ongoing opportunities for observation by U of A music education students.

Dr. Robert de Frece, coordinator, credits the choirs' great success to the

talent and dedication of directors Susan Lehman, Catherine de Frece and Marilyn Kerley; the work of the members of the Faculty of Education Youth Choirs Parent Association and the support of the University of Alberta's Faculty of Education.

The Faculty of Education Youth Choirs will hold auditions for their 1999-2000 season on Tues., June 15 for the Junior Youth Choir (children 7-10), Intermediate Youth Choir (children 11-14) and Senior Youth Choir (teens 15-19).

Parents interested in having their children sing in one of the choirs are invited to make an appointment through the office of the Department of Elementary Education, 492-4273, ext. 221. ■

Landmark victory for gays and lesbians needs legislative action for true equality

Prof. June Ross, Faculty of Law

On May 20, 1999, the Supreme Court of Canada handed down its judgment in *M. vs. H.*, a decision immediately reported as a landmark victory for gays and lesbians. But it is a victory in principle, not practice: the ruling has not as yet taken effect. If and when it does, it will not create the necessary legal changes to make same-sex partners and families equal in any meaningful sense. Inherent and self-imposed limitations on judicial authority give rise to real restraints on judicial activism, and mean legislative action is essential if there is to be significant progress toward equality.

There are inherent limitations because the issue arose out of a private dispute. The relationship between M. and H. broke down. M. was left without resources or income and sought support from H. The ability to bring such a claim under the Ontario Family Law Act was restricted to heterosexual couples. M. argued the restriction was unconstitutional. After she had succeeded before the Ontario courts, and before the Supreme Court of Canada appeal, M. came to a settlement with H. The appeal nonetheless continued. While the case had become moot as between the

original parties, the constitutionality of the Family Law Act remained a live dispute.

The case that continued against the Family Law Act was still, however, limited to the issue raised between M. and H. The case was thus not only limited to one statute, but to particular provisions within it. The Family Law Act contains more than one set of rights and obligations, and more than one definition of spouse. The primary definition of spouse under the act includes only persons who are actually married. This definition applies to all parts of the act. The expanded definition of spouse includes opposite-sex couples who have cohabited for at least three years, or for some lesser period if they have a child. The expanded definition applies to some, but not all, rights and obligations under the act.

The Supreme Court made it clear it was dealing only with the issue of spousal support, and only with the omission from the expanded definition of same-sex spouses. As Doug Elliott said (one of the counsel in the case), the act could be likened to a train with a first-class carriage for married couples and a second-class carriage for common law opposite-sex

couples. Same-sex couples were not even on the train. The effect of the court's ruling was same-sex couples could not be excluded from second class.

While it concluded the law in its present form is discriminatory, the Supreme Court was not prepared to judicially rewrite the law. The court noted a number of difficulties that would be involved should it expand the spousal support obligation to same-sex couples. For example, another provision in the act, not challenged in the case, allows opposite-sex couples to "contract out" of the act by entering into cohabitation agreements. To extend the spousal support provisions without extending this section would create another form of discrimination against same-sex couples, as they alone would be precluded from contracting out. Therefore, the court held it was preferable that it not rewrite the law, but provide the legislature with an opportunity to do so. Should the legislature not act within six months, the unconstitutional law would be struck out.

What happens if the Ontario legislature refuses the judicial invitation to rewrite the act? The court held the part of the law that had been challenged and held

to be discriminatory was the expanded definition of spouse, which extended some of the rights and obligations under the Family Law Act to heterosexual opposite-sex couples. Therefore, it is this extended definition that should be struck out, so the act would provide no benefits to unmarried heterosexual couples. The second-class carriage would be decoupled from the train.

This would, of course, create discrimination on the basis of marital status and open the door to another constitutional challenge, one that would seem destined to succeed. Indeed the Alberta Court of Appeal recently concluded the provincial spousal support legislation (the Domestic Relations Act), which was limited to married couples, was discriminatory. Again, the court provided an opportunity for a legislative response, but added in the event of legislative inaction, the law should be struck out. Spousal support would be equally unavailable to all. The train would be completely derailed.

This case illustrates the limitations of judicial activism. To this important extent, the legislatures continue to run the trains. ■

National student career Web site picks up steam

By Geoff McMaster

One sure way to slow Canada's brain drain is to make it easier for university graduates to get jobs. Since last fall, the University of Alberta—along with UBC and the University of Western Ontario—has been helping to make that happen with an on-line "hiring hall" called CareerOwl. It's designed to quickly bring together students and employers.

Officially launched last September, the Internet site has seen a steady rise in activity over the last eight months. At last tally,

it had 10,642 students registered, with 413 employers posting 1,284 jobs. The numbers may not be as big as those boasted by CareerOwl's major competitors, the American-based Monster Board and Moasic career Web pages, but the word seems to be spreading fast.

Initiated by faculty volunteers at the three universities, and based on labor research of business professor Dr. Alice Nakamura, CareerOwl allows all Canadian post-secondary students and alumni to post resumes for free. Job candidates receive a confidential identification number so they can choose when to reveal themselves to employers. Employers pay a \$25 fee for each job posting.

Using what Nakamura calls "the best software system in the business," students and employers can describe and target specific training and skills, saving the much-needed time it takes to sift through piles of applications. Students can also receive help with resumes, cover letters and interviewing techniques from the Web site's resource centre.

"CareerOwl is designed for all types of jobs including volunteer, part-time, full-time, non-profit and government," said Nakamura at an inaugural information session last March. "Students and alumni of post-secondary institutions can search for work in both urban and rural areas quickly and easily." Nakamura was inspired to provide the service after her research revealed gaps in the labor market.

There is no way to track how many students have actually ended up with jobs after using CareerOwl, since interviews and job offers take place after candidates and employers make contact through their system. CareerOwl has asked successful

candidates to let them know if they landed a job as a result of using the "hiring hall," but so far none has replied.

However Richard Watson, who graduated from the U of A with an MBA last spring and now does marketing for

CareerOwl, says he'd be "hard pressed to say there haven't been success stories because students are coming out of nowhere now and signing up." Employers have also reported they're getting responses to their postings and want to issue more. ■

folio letters to the editor

AN UNANTICIPATED COST OF UNIVERSITY RESTRUCTURING?

Is Folio paying the price for the demise of the Department of Geography? In an article designed to argue for more Ontario students at the University of Alberta, a number of errors on the accompanying map indicate that the disappearance of geography at a university can have significant educational and political consequences (May 7, 1999).

On the offending map, the western part of the country is well represented (despite the unconventional use of a serif font) but as the map designer moved east, problems developed. Although most of Canada's land mass makes it onto the map, for no apparent reason a sizeable section of the Atlantic provinces was sliced off. Because most of the Rock got left off, Labrador is renamed Newfoundland (so much for *This Hour has 22 Minutes*). The North is also unfamiliar: Yukon Territory

becomes the Yukon Territories in Folio's view of Canada. Nunavet (*sic*) is indicated but no boundary with the NWT is suggested. Ontario and Quebec are not identified at all. Since Ontario is the object of the accompanying story and because the graphic on the map would allow one to infer which of these unlabeled provinces is Ontario, the absence of a label for Ontario can be explained. That leaves Quebec, alone again. Does Folio's map maker know something we don't about Quebec's future, or are we just reading too much into a poorly done map?

We have our own occupational bias, no doubt.

Our apologies to Earth and Atmospheric Sciences for gratuitously putting them on the spot.

Frank Tough, School of Native Studies
Claude Denis, Faculté Saint-Jean



Ee-i, ee-i, oh!

Food and U Day drew curious critters to the U of A's Edmonton research station

By Lucianna Ciccioppo

There was "food groups" twister, conservation "Jeopardy", bannock baking and face painting—nestled in between interactive displays, guided tours of creatures great and small and, of course, tractor hayrides.

It all took place during Food and U Day, May 28-29, at the Edmonton Research Station, commonly known as the University Farm. And about 5,000 schoolchildren, teachers, families and friends stopped by with their food donations for the Edmonton Food Bank.

Under sunny but windy skies, the Faculty of Agriculture, Forestry and Home Economics, together with the Faculty of Physical Education and Recreation and the Faculty of Medicine and Dentistry, put on a free fiesta of 60 displays and things to do. Everyone got a chance to learn about the links between safe, nutritious food and healthy living, land conservation and biodiversity for the future, new technologies in modern agriculture, food sciences



Researchers were out in full force, trying to talk about the wonders of their work above the cacophony of excited children's voices.

and health, and career opportunities in the Alberta agri-food industry.

Greenfield resident Heidi Belter, mother of Caleb, 6, and Rebecca, 3, toted along her neighbor's children too last Saturday. "It's a good educational day. It's great to expose the urbanites to rural life." The children said they loved the hayrides the best, but were fascinated to see the cows involved in the digestibility studies at the Dairy Research and Technology Centre.

Graduate students, such as Rick Corbett, are able to access the food in the large stomach of a cow painlessly—then return it, so good ol' "Betsy" doesn't feel hungry.

"We take it out, weigh it and put it back in," said Corbett. Researchers are investigating the relationship between feed and milk production, and how to improve its efficiency. One cow Corbett tested, No. 41, had 112 kg or 249 lbs of food in her stomach, covering a 25-hour period of eating!

Over at the new chick hatchery, one-to-seven-day-old embryos were laid out in petri dishes to demonstrate the rapid development of chicks. Gaylene Fesenko, a U of A research associate, was impressed with her little visitors. "The kids were very interested; they weren't squeamish at all." The new, state-of-the-art hatchery has incubators for about 5,000 eggs which are automatically turned, "as in the wild, to prevent the embryo from sticking to the sides of the shell."

And who could resist cupping a newborn chick in a palm? There were some just hours old, and others still pecking through their shells—gold, red and chocolate-brown chicks. Next door, in the Poultry Processing Research Facility, amazing chicken facts greeted guests, such as: Chickens grow 40 times their hatching weight in 40 days, from 50 g to 2000g. That means, if your kid brother weighed 3.3 g (7 lbs), at birth he would reach 127 g (280 lbs) in 40 days!

In addition to the animals, there were soil samples to look at, composting tips and fitness tests. White information tents dotted the landscape, while 220 volunteers



Tractor rides were a fun way to get around the farm.

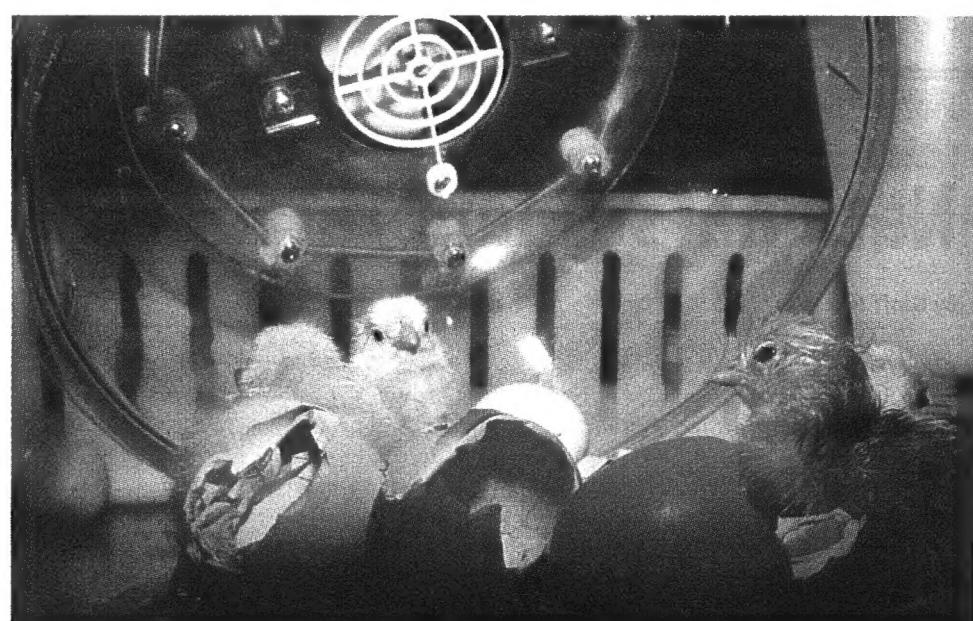
**Bet you
didn't
know...**

POULTRY

- At any given time, there are between 12-14,000 potential eggs in a hen.
- It takes about 25 hours for a hen to produce an egg.
- The Alberta Poultry Research Centre, based at the U of A, is home to one of only three rare breed collections in North America.
- The most valuable components of a chicken are the breast muscle and wings. Twenty years ago it was the drumstick.

DAIRY

- You can change the amount of fat in whole milk by changing cow feed.
- At the U of A, some of our dairy cattle have produced whole milk with as low as 2 per cent fat content.
- A cow, on average, will produce 35 litres of milk every day. Some cows produce up to 65 litres in one day.



It takes anywhere from 20 minutes to several hours for chicks to hatch—depending on how many breaks they take.



The Dairy Research and Technology Centre at the U of A is home to 165 dairy cows, right in the middle of the city.

NUTRITION

- The calcium content in one cup of milk (250 ml) is equivalent to about 300 g of cottage cheese. That's equal to about 50 g of cheddar cheese.
- Most hard and semi-hard cheeses of the world are excellent calcium sources.
- There are about 10,000 components in milk. About a dozen of them are nutritionally important.

FOOD SCIENCE

- Bacteria come in three varieties—the good, the bad and the ugly.
- Each spoonful of yogurt contains millions of bacteria.
- U of A researchers are trying to develop innovative methods to control the growth of foodborne pathogens in foods.

Fun on the farm

clad in green U of A T-shirts, helped guide visitors around the farm. Researchers were out in full force, trying to talk about the wonders of their work above the cacophony of excited children's voices.

"It's good to get the word out," said Dr. Ferral Temelli of the Department of Agricultural, Food and Nutritional Science (AFNS). She's investigating supercritical fluid extraction, such as taking oil out of the canola plant.

"I'm grateful and pleased to see so many students and young adults here. Hopefully, they'll be students and scientists at the U of A one day," said Dr. John Kennelly, AFNS chair.

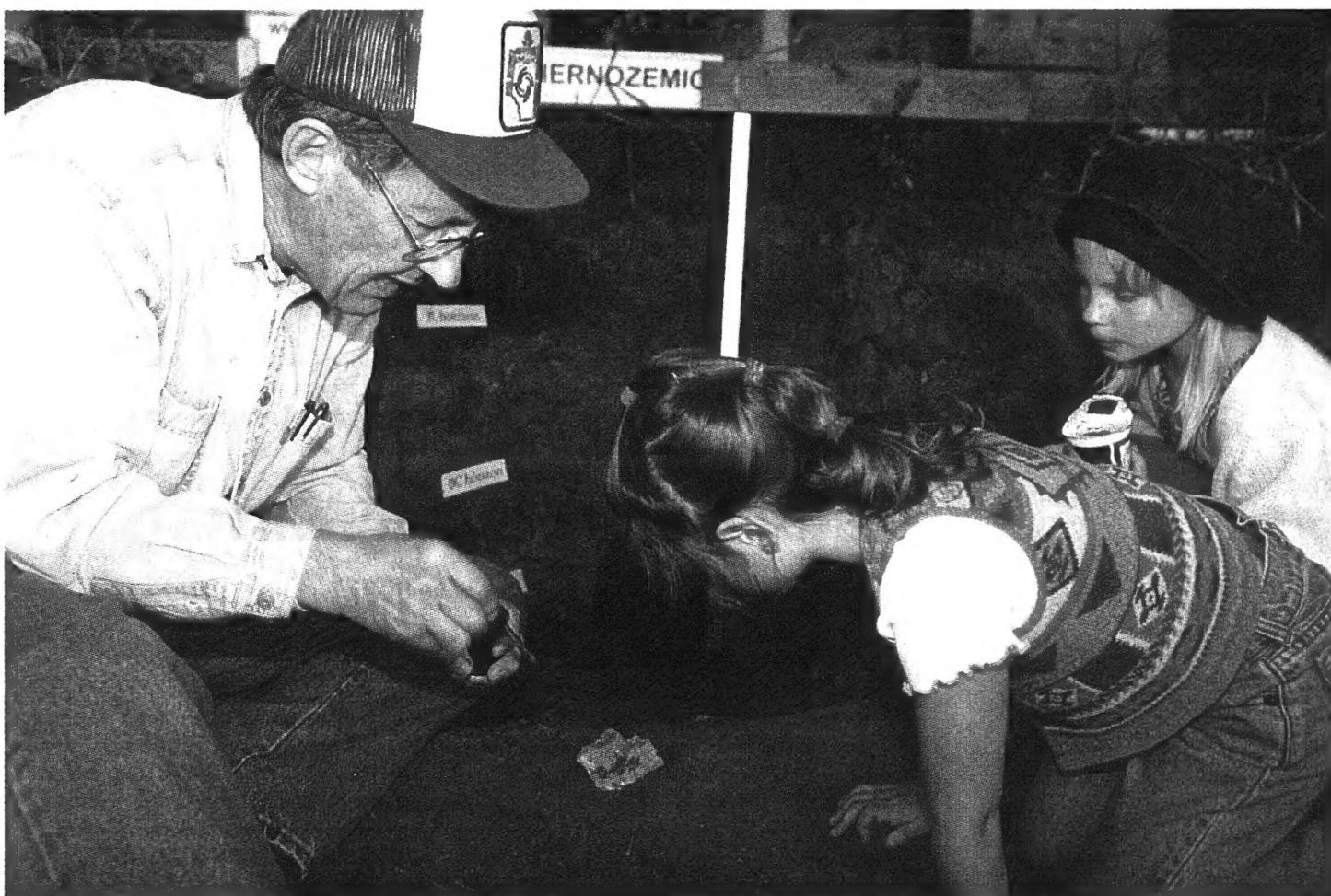
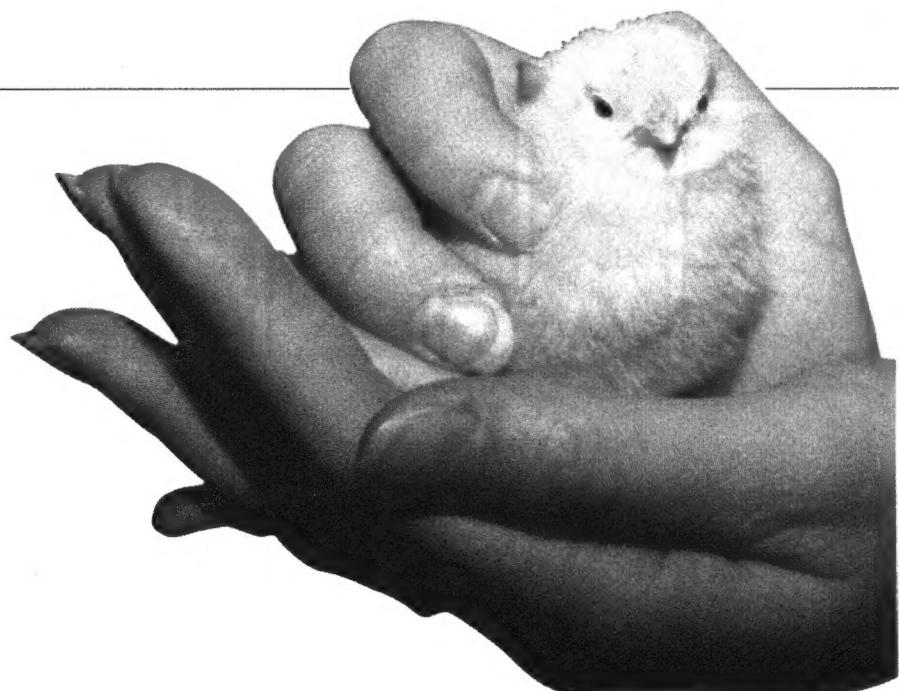
The public were invited to tour the university farm about three years ago, explained Dr. Ian Morrison, dean of the

Faculty of Agriculture, Forestry and Home Economics. This year's Food and U day was different because it involved another two faculties. "The purpose is to inform young people and the public about the inter-relationships between agriculture, food and nutrition and exercise and health."

And while many researchers were pleased with the inquisitive questions, it's clear there needs to be more time spent on the farm for some "city slickers." Dr. Frank Robinson, AFNS professor, held up two eggs, one white and one brown, and asked which one was healthier.

Piped up one child: "The brown one. It has more fibre!"

(There is no difference, except in pigment.) ■



How much land does it take to grow a meal? Dr. Jim Robertson demonstrated in the soil pit.

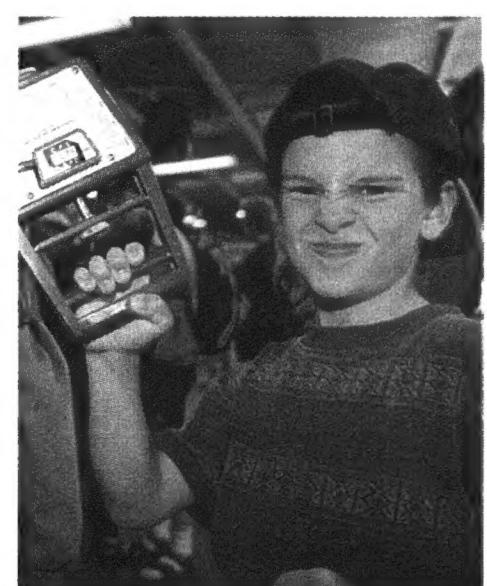


Learning about a cow's four stomachs inside the Dairylicious tent.

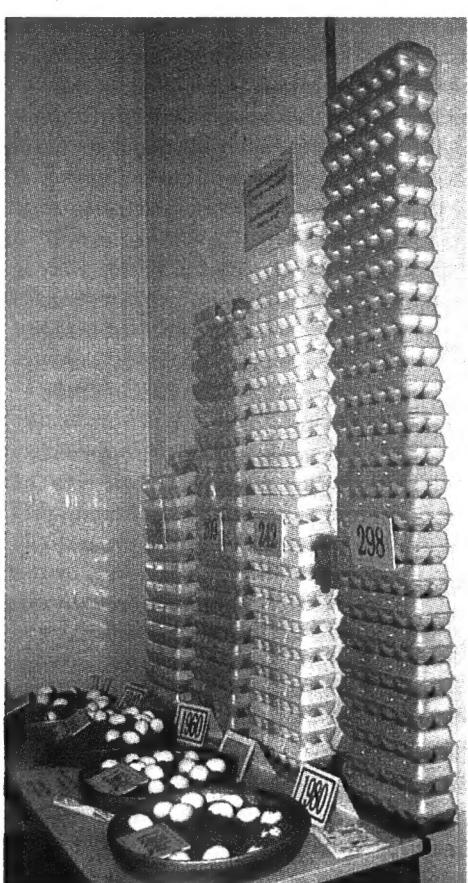
Photos: Tina Chang and Dave Williamson

SWINE

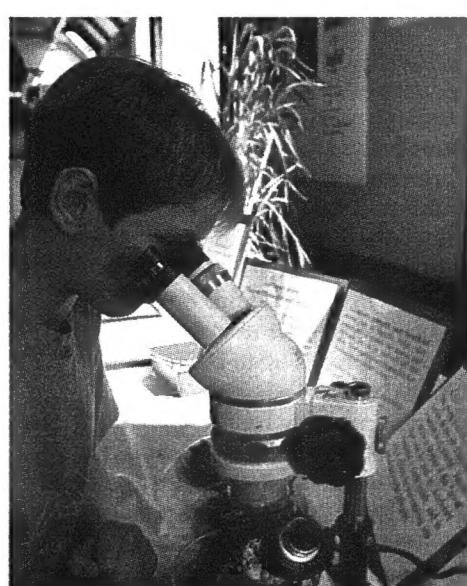
- Swine research has huge implications on human health, including infant nutrition.
- Pig pancreas cells will be used to treat juvenile onset diabetes.
- "Hog," "swine," and "pig" all mean the same thing.
- The average piglet (baby pig) weighs about 1 kg (2.4 lbs) when it's born.
- A full-grown boar can weigh up to 400 kg (900 lbs)!



Physed set up a booth to compare grips to NHL players.



In 1999, chickens can lay 298 eggs in a year (blue egg cartons) compared to 134 in 1940 (yellow cartons).



Studying environmentally friendly plant disease control.



Kids learned about the weather at the online climate display.

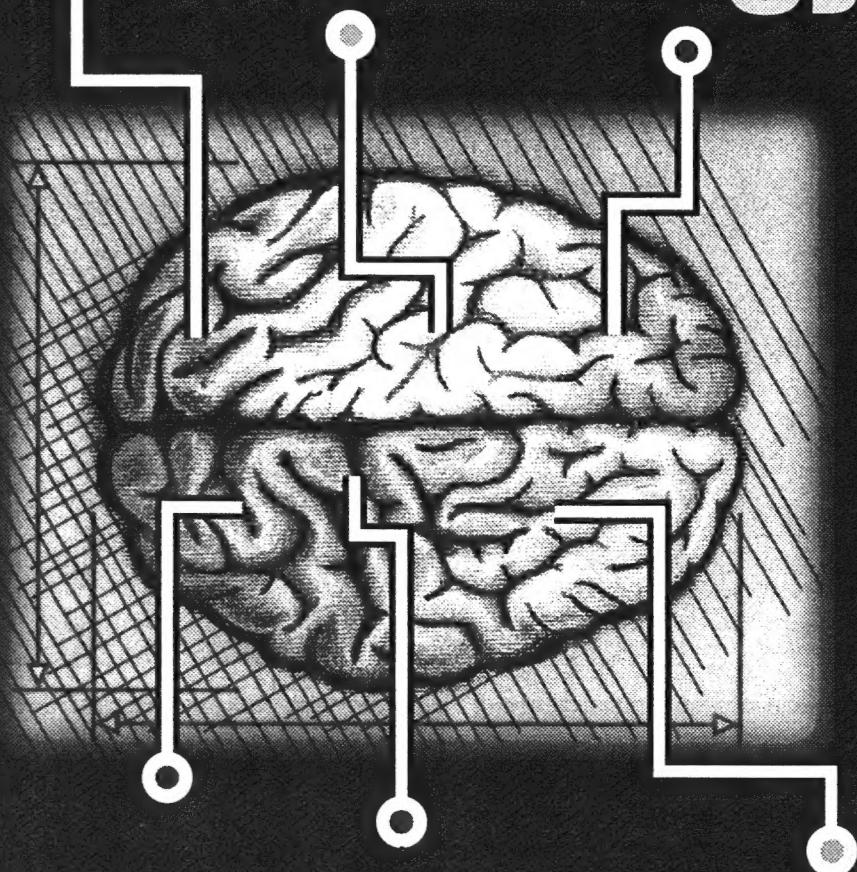
CROPS

- Parts of Edmonton lie on some of the better agricultural soils in Alberta. It's flat, relatively rock free, holds water well and is rich in organic matter.
- There are about 1,300 recognized and named soils in Alberta, classified in a way similar to animal classification.

EXERCISE

- 59-73 per cent of Canadians are either sedentary or insufficiently active.
- Cardiovascular diseases are the leading cause of death in Canada.
- 25 per cent of all cardiovascular-related deaths are a direct result of sedentary living.
- Exercise is the best aphrodisiac.

knowledge through technology



Campus Computing Symposium '99

UNIVERSITY OF ALBERTA

June 22-25

Tory Lecture Theaters

Program

- Four Keynote Speakers: Leaders in Technology
- Five Symposium Streams: General Interest, Technology and Learning, U of A Enterprise, Research Computing, Technical Support
- Technology and Learning Open Houses
- Geek Nights at the PowerPlant

Registration Information

- On-Campus/Educational: \$75
- Off-Campus: \$140
- Students: \$35
- All attendees will receive a free Symposium T-shirt!

PROGRAM DETAILS AND ONLINE REGISTRATION:

<http://www.ualberta.ca/symposium>

U of A shares \$2 M windfall for biomedical research

By Geoff McMaster

The Universities of Alberta and Calgary will share \$2 million in funding from the Westaim Corporation to support biomedical research.

The money will create four research chairs (two at each university) by late next year. Researchers in the U of A's Faculty of Engineering will study biomaterials for tissue integration, while their counterparts at the U of C will concentrate on biofilm research for infection control. The universities plan to work together and share results. They're also hoping to use Westaim's contribution to attract additional funding from provincial and federal levels of government.

"It should enable us to crank up this area of expertise substantially," says Vice-President (Research and External Affairs) Roger Smith. "In the long run it will be determined by how much industry support evolves in the province." He says the funding will help the university "attain a competitive edge nationally and internationally" in biomedical research.

Dr. David Lynch, dean of engineering, says Westaim's funding will complement the Whittaker Foundation's \$1.3 million donation to the Faculty of Medicine two years ago.

"We're looking at a broader program that interacts with the Faculty of Medicine for the biological issues—using their

knowledge of how hard and soft tissues respond and the engineering ability to analyse and design how the materials can be constructed, implanted in the body and put under various forces," says Lynch. "It enables us to take our work in biomaterials and biomechanics to a whole new level."

Research in biomaterials will focus on compatibility of man-made materials with the human body, he says, while biomechanics will examine the stress factors to which the materials are subjected when implanted.

Kevin Jenkins, president and CEO of Westaim, says the company is "committed to conducting and funding advanced materials research in Alberta. The chairs in biomedical research will help advance the work Westaim is doing to develop infection-control materials for the treatment of burns and other wounds."

This latest contribution by Westaim builds on a 1990 agreement between the company and the federal and provincial governments to research and develop new products, processes and systems in advance materials

(metallics, ceramics, polymers and composites). Between 1990 and 1996, a total of \$140 million—\$30 million from Canada, \$40 million from Alberta and \$70 million from Westaim and its allies—was invested in research and development. ■

UNIVERSITY
OF ALBERTA
CAMPAIGN

Fate of ceramics program rests upon June 17 meeting

By Lucianna Ciccocioppo

Increasing costs and a serious lack of space in the Faculty of Extension prompted a motion from the dean to suspend the ceramics program effective July 1. But registrants of the arts program aren't letting go without a fight. An active letter-writing campaign to faculty, Senate members and the local newspaper is in the works.

What's not working are the financials surrounding the program. The ceramics studio occupies 15 per cent of the faculty's classroom space (about 140 registrants annually) and its enrolment represents less than two per cent of the total registrations. The studio is open 77 hours per week, although only 15 hours of classes are scheduled this term, for 19 per cent class usage, said the dean. According to Dean Randy Garrison, the ceramics program currently has an operating loss of about \$50,000. Dr. Garrison said a tuition increase would push the price to \$460.00, up from \$180.00 per registration.

"We don't have the resources to do it all," said Garrison. "The catalyst was the need for space." Suspending the program would free up two of the largest classrooms, he explained, of which one would be a high-tech classroom.

"For some time, the vision of the visual arts and design program has been to bring it into the modern age, to build upon and develop new media issues," said Garrison.

However, the threat of removing ceramics from the U of A has left many an artist up in arms.

"I feel like a radical potter," joked Lara Ninja, a ceramics student and graphic artist on campus. While Ninja said she can't dispute the financial situation of the program, she felt participants were not made sufficiently aware of how dire the situation actually was.

"I think the program could have been better organized. Communication about it was not very good, and the publicity about it was not done as well as it could have been," added Ninja. She's taken part in a letter-writing campaign to lobby members of the Faculty Council about the importance of the ceramics program to Alberta's artistic community.

"My point was, this place is different. There's more of emphasis for education at the U of A's ceramics program than those at guilds and cooperatives," said Ninja.

There is a small working group of six people, including the executive director of the Edmonton Arts Council, soliciting proposals to transfer the ceramics program into the community. "One option is to have a collaborative agreement within the larger community. We would still run it, but the program would be truly collaborative," said Garrison.

Extension's Faculty Council tabled Garrison's motion because it wanted further information and discussion about the program's role in extension and about the financial situation.

The matter will be considered at the next Faculty Council meeting June 17. ■

Folio goes to the movies

A Midsummer Night's Dream

By Trevor Buckle, public relations assistant, Faculty of Science and Anna Fodchuk, undergraduate program adviser, Department of Psychology

Film buffs, Anna and Trevor, can't keep their opinions to themselves. Here's what they thought of *A Midsummer Night's Dream*.

Can't enjoy the beauty of campus because you're stuck in your office or lab? Perhaps there isn't a window in your office? If so, then you need *A Midsummer's Night Dream*.

This latest rendition of William Shakespeare's classic comedy is a lusty, sensuous romp that's as pleasing to the brain as it is to the senses. The film is set in late 19th-century Tuscany, days before the marriage of the local Lord Theseus to Hippolyta.

Necklines are high. Parents are rigid. Social convention dictates the fate of the young. The good news is the rise of a new-fangled creation called the "bicycle." The fairies of the woods, led by Michelle Pfeiffer and Rupert Everett, play tricks on two pairs of lovers and on themselves. In the midst of all this, a rag-tag band of actors led by Kevin Kline (T: "he practically steals the show") comes to the forest to rehearse a play and get drawn into the action.

The four lovers, played by Calista Flockhart, Christian Bale, Anna Friel and Dominic West, act up a storm, while Stanley Tucci, as Puck the fairy trickster, is the most lovable of all.

T: I loved it!

A: I eventually liked it. I had to get past the Shakespearean stuff. Never really been a fan of Shakespeare but this movie has changed it for me. The beginning was too serious.

T: Do you think it was stilted? I've seen many productions of this play and I thought, 'Okay, here we go again—another *Midsummer Night's Dream*. Yawn!' I think it only took 30 seconds until I was hooked.

A: The costumes were excellent.



Tina Chang
Fodchuk and Buckle: Four Golden Bears and Pandas out of five for *Midsummer Night's Dream*.

T: The sets were great. Everything was sumptuous to look at. And the actors looked like they really enjoyed themselves.

A: Michelle Pfeiffer wasn't believable. She looked like she was reading off a script but she sure looked great.

T: I thought everyone fit his or her part but I'm surprised Rupert Everett was so serious. I've seen a lot of productions where they make his character more rollicking and earthy. He was really serious in this movie.

A: Calista Flockhart didn't stretch much from her TV role, *Ally McBeal*, but she was fun to watch. What's the connection between the marriage of Theseus and Hippolyta and the rest of the movie?

T: They provide the excuse to have a group wedding with the members of the "love square."

A: ...a "love triangle?"

T: More like a "love hexagon!"

A: Definitely, a lighthearted summer movie. A great way to spend two hours romping in the woods.

T: Definitely worth four Golden Bears out of five.

A: Four Pandas, it is. ■

\$3M in AVAC dollars for value-added agribusiness research

The Alberta Value-Added Corporation (AVAC) Ltd. committed \$3 million to the U of A's Department of Agricultural, Food and Nutritional Science (AFNS) to pursue research in value-added agribusiness.

"It's a line of credit," said Bruce Healy, AVAC president and CEO, "which will be used to recruit and sustain four senior, world-class scientists for the U of A. Funding for early stage research is a critical component in the development of scientific innovation—one of the key drivers for Alberta's future growth."

Healy made the announcement May 28 at the Edmonton Research Station, an appropriate backdrop, said Dr. John Kennelly, AFNS chair.

"Agricultural research has been taking place here for almost 70 years, almost a century," said Kennelly. "This \$3 million will essentially prepare us for the next century, building the research infrastructure and labs for our scientists. And infrastructure includes green space—without buildings on it—for food and plants to contribute to the food supply."

Expanded research will result in innovative new product development, including functional foods and nutraceuticals, which increases the value of primary agriculture.



Tina Chang
AFNS can now hire four world-class scientists to conduct value-added research like Dr. Peter Sporns does, pictured here with a student.

This will build the research infrastructure and labs for our scientists. And infrastructure includes green space—without buildings on it—to contribute to the food supply.

—Dr. John Kennelly

ciency, value-added processing, nutrition and human health. ■

Said Kennelly: "Our vision is similar to the province's vision. We want to grow the agrifood industry in Alberta by getting the very best senior scientists to this university, who will attract outstanding students and other scientists."

AVAC Ltd. is a private investment firm that acts as a catalyst for the development and pre-commercialization activities needed to build successful value-added agribusiness.

The Department of Agricultural, Food and Nutritional Science is home to an integrated agribusiness teaching and research program which is unique in North America, and includes production effi-

BACK BASICS

Massage Therapy



Pain relief through European alternatives; heat, massage, chiogymnastics and interferential electro-therapy.

Maria Krieg
11610-75 Avenue
Edmonton, AB
#118186
(403) 436-8059

Check your benefit plan for coverage.

TOTAL CARE FOR BACK & SPINE

INNOVATION PLUS DEVELOPMENTS LIMITED

RESIDENTIAL CONTRACTORS

renovations additions new homes

JACK ROTH
434-0923

folio

classifieds
WORK

call 492-0436 for
more information

McKernan Child Care Society

Out of School Care Centre

located in the McKernan Community League conveniently located next to McKernan Elementary

QUALITY CARE FOR CHILDREN 6 - 12 YRS

NON-PROFIT PARENT-RUN

Register now for our Summer Program & Sept. 99
For information call Judy or Tim at 437-1971

A RETIREMENT INCOME FUND OR AN ANNUITY? GET THE FACTS RIGHT HERE.

If you have questions about what to do with your RSP investment when you retire, we've got a few words of advice for you in our free Retirement Income Funds (RIFs) and Annuities brochure.

From the advantages of a self-directed RIF to protecting your nest egg from inflation, our new booklet tells you everything you need to know to make an informed decision.

This helpful information is yours absolutely free from ScotiaMcLeod. Just call the number below or complete the attached coupon and mail today.

Please complete and mail

Please send me a copy of ScotiaMcLeod's Retirement Income Funds and Annuities brochure.

Name _____

Address _____

City _____ Prov. _____ Postal Code _____

Telephone (Day) _____ (Evening) _____

My ScotiaMcLeod Investment Executive is: _____

CALL SYLVIA HAAK
SENIOR INVESTMENT ADVISOR
497-3227

2000 Canada Trust Tower
10104 - 103 Ave
Edmonton, Alberta
T5J 0H8

ScotiaMcLeod
Building Relationships for Life
Member CIPF

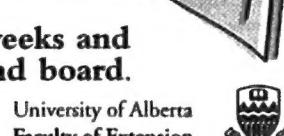
HOST FAMILIES NEEDED

Open your home to an international language student and make every day a cultural learning experience.

Placements are for a minimum of 8 weeks and include monthly payment for room and board.

To find out more about this opportunity, e-mail trudy.stevens@ualberta.ca or call 492-0071.

University of Alberta
Faculty of Extension



www.extension.ualberta.ca/clp
English Language Program - Homestay Services

folio display ads WORK

ARTranslation Inc.
Translation & Editing Services

Annie Robberecht

Certified Translator (ATIA, STQ)

Tel. 438-6105 Fax 436-9027
Full Editing Services Available in French

Paul Lorieau's University Optical



433-5500

"We value your eyes, and we'll prove it by offering the very best in optical care at everyday low prices."

Conveniently located in College Plaza
8217 - 112 Street, Edmonton, AB T6G 2C8



100, 10585 - 111 Street
Edmonton, Alberta, T5H 3E8
Telephone (403) 429-6779
Facsimile (403) 424-0004
Email ron_graham@msn.com

PLANNING YOUR RETIREMENT?

WILL YOU HAVE ADEQUATE FINANCIAL RESOURCES?

At Ron Graham & Associates Ltd. we help you clarify and achieve your financial goals. We provide professional financial planning and advice without product sales.

Please call for initial consultation without cost or obligation.

Ron Graham, C.A., R.F.P., CFP

PERSONAL TAX

It's not what you earn,
.... it's what you keep!

- We'll help you sort out your accounting.
- We'll minimize your taxes.
- Timely service - Clear fee structure
- Initial consultation ... No charge!



DAVID DORWARD Chartered Accountant

Ph: 413-7211 Fax: 413-7226
Strathcona Professional Centre
#304 10328-81 Avenue
Edmonton, Alberta, T6E 1X2
dd@compusmart.ab.ca

U of A Accommodation Guide

These facilities have contracted with the University of Alberta to provide accommodations at the rates indicated. Each facility has unique features and offers something to suit everyone's taste.

To accommodate special guests to the University, reservations can be made using the Hotel Authorization Program (HAP) form which allows post-payment by the hosting department.

These rates are per night and are exclusive of convention conference rates which are established by conference/convention organizers. Rates valid to December 31, 1999 unless otherwise noted, taxes not included.



11145 - 87 Avenue
Edmonton, AB T6C 0Y1
Ph: (780) 439-6060
Fax: (780) 433-4410
1-800-661-6562
[www.suitehotelgroup.com](http://suitehotelgroup.com)
info@campustower.com
Across the street from all University facilities.

single/double
\$69



8208 - 106 Street
Edmonton, AB T6E 6R9
Ph: (780) 434-6111
Fax: (780) 439-1195
1-888-515-3355
Complimentary continental breakfast, meeting space available, walking distance to the University.

single/double
\$89

For further information about booking these facilities, contact Joyce Assen at 492-5530, or visit our website: <http://www.financial/ualberta/ca/travel/>

events

AUDITIONS

FACULTY OF EDUCATION YOUTH CHOIRS

Auditions for 1999-2000 season are Tuesday, June 15, 1999. Junior Youth Choir: boys and girls age 7 to 10. Intermediate Youth Choir: boys and girls age 11 to 14. Senior Youth Choir, girls age 15 to 19. Call 492-4273 ext. 221 for audition appointment.

MEETINGS

CANADIAN SOCIETY FOR BRAIN, BEHAVIOUR AND COGNITIVE SCIENCE (BBCS)

Ninth annual meeting of the BBCS. Includes paper sessions, symposia, posters, distinguished lecture, high quality scientific interaction. BBCS is dedicated to the advancement of Canadian research in brain, behaviour and cognitive science. June 18 - 19. On campus. Details and registration information available online at web.psych.ualberta.ca/~bbcs99 or by e-mail alan.kingstone@ualberta.ca

SYMPOSIUM

CAMPUS COMPUTING SYMPOSIUM 1999

Knowledge through Technology

June 21 - 25

Every two years a computing symposium is held on campus to promote synergies among faculty and staff who use various technologies for instruction, technical support, administration, and research. Tory Lecture Theatre complex, University of Alberta. Symposium 1999 will include five streams: General Interest, Technology and Learning, Research Computing - Tools for Discovery, U of A Enterprise, and Technical Support in Distributed Environment. Also features a number of keynote speakers, including UBC's Professor Murray Goldberg (the creative force behind the development of the WebCT online course authoring tools), and Clifford Lynch, Director of the Coalition for Networked Information (Washington, DC). Detail information and online registration: www.ualberta.ca/symposium

CANADIAN SOCIETY FOR PHARMACEUTICAL SCIENCES (CSPS)

August 27 and 28

2nd annual symposium of CSPS, "Exploring Human Diversity in Drug Development and Pharmacotherapy." At Le Centre Sheraton Hotel, Montreal, Quebec. Program and registration information posted online at <http://www.pharmacy.ualberta.ca/CSPSConferenceSite>. Payment may be made by mailing cheque or money order, or by VISA.

positions

The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities. In accordance with Canadian Immigration requirements, preference will be given to Canadian citizens and permanent residents.

CASE MANAGER/REHABILITATION

COORDINATOR

(2 POSITIONS)

Human Resource Services has two exciting and challenging career opportunities to become part of the Health Recovery Support Unit (HRSU) team within Employee Programs. You will be accountable for ensuring the effective case management of long and short-term disability, and workers' compensation claims involving academic and support staff. You will also facilitate appropriate assistance and/or support networks for individuals dealing with a chronic or progressive disability to enable them to remain in the workforce and maintain an optimal quality of life.

The case manager/rehabilitation coordinator plays a lead facilitation role in assisting ill/injured staff members to reach maximum health and productivity, and return to suitable work at the earliest possible date. You will also play a key role in program development and promotion, and act as an ambassador for the HRSU within the campus community. Key operating principles include an emphasis on early intervention, a clear focus on return to work or an acceptable alternative where return to work is not possible, coordinated and effective medical/rehabilitation management, and planned vocational rehabilitation support where required. Coordination of efforts across multiple systems is essential to adequately address quality of life issues and appropriateness of health care or rehabilitation services. Your caseload will include individuals recovering from, or coping with, both physical and mental health disorders.

In addition to professional competency in areas related to disability management you will demonstrate excellent customer service, interpersonal, and organizational skills, and have the ability to both contribute effectively and work within a team environment.

We offer a comprehensive salary and benefits package in an environment that recognizes and rewards excellence. The salary range for these positions as of July 1, 1999 is \$37,649 to \$56,477 per annum.

There are two positions being recruited: one Administrative and Professional Officer (full-time, continuing), and one full-time, 18-month term with the possibility of extension. Candidates are asked to submit a resume no later than June 16, 1999 to:

Melanie Goroniuk
Health Recovery Support Unit
Employee Programs
2-40 Assiniboia Hall
University of Alberta
Edmonton, Alberta T6G 2E7

talks

Submit talks to Brenda Briggs by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at public.affairs@ualberta.ca.

ALBERTA CENTRE FOR INJURY CONTROL & RESEARCH

June 7, 12:00 - 1:00 pm

Speaker Heather Lissell, Rehabilitation Coordinator, ACICR, UofA, "Sport & Recreation Related Head Injuries Treated in the Emergency Room" and speaker Niko Yiannakoulias, Department of Earth and Atmospheric Sciences, "An Investigation of Environmental Risk Factors Associated with Child Pedestrian Injury in Edmonton." Classroom F, WMC 2J4.02.

DEPARTMENT OF BIOLOGICAL SCIENCES

June 18, 2:00 pm

Visiting speaker, Dr. Don Crawford, Dept of Microbiology, Molecular Biology and Biochemistry, University of Idaho, "Current Status of Technology for the Bioremediation of Trinitrotoluene (TNT) Contami-

nated Soils and Waters." Room G116, Biological Sciences Building.

DEPARTMENT OF PHYSIOLOGY

June 9, 9:00 am

Karen Thethi, Department of Physiology, UofA, PhD Thesis Defense Seminar, "The Effect of Nitric Oxide on Whole-Cell Current in Cystic Fibrosis Pancreatic Epithelia." 207 HMRC.

June 9, 2:00 pm

Dr. Christine E. Bear, Division of Cell Biology, Research Institute, The Hospital for Sick Children, Toronto, "The Structure of the Epithelial Chloride Channel CIC-2 and its Role in Intestinal Secretion." 6-28 Medical Sciences Building.

WESTERN CANADIAN RIVER ADVENTURES
3-5 Day Canoe Adventures on the Western Canada's Finest Rivers
Safe and Stable Voyageur Canoes – no experience required
An accompanying guest speaker will include a professional naturalist/geologist or historian

Ads are charged at \$0.50 per word. Minimum charge: \$3.00. All advertisements must be paid in full by cash or cheque at the time of their submission. Bookings may be made by fax or mail provided payment is received by mail prior to the deadline date. Pre-paid accounts can be set up for frequent advertisers. Please call 492-2325 for more information.

ACCOMMODATIONS FOR RENT

CALL NOW! To buy, sell, lease a condominium. \$49,000 to \$450,000. Please ask for Connie Kennedy, condo specialist/consultant, 25 years expertise. Re/Max, 482-6766, 488-4000.

HAWAII - WAIKIKI - deluxe one bedroom condo. Ocean view. Short term rentals. 452-9696.

VICTORIA VACATION HOME - day/week/month, ocean walks and views. Phone (613) 841-3503, Ottawa, e-mail: mcmillan.j@sympatico.ca

UNIVERSITY AREA - Deluxe two bedroom, two bathroom, upper level house. Security monitored. Fireplace, appliances, garage. Annual lease. July 1st, \$795.00, shared utilities. Non-smokers. References. 433-6730.

FULLY FURNISHED EXECUTIVE SUITE CONDO - Gorgeous panoramic view of river valley and downtown. Two bedrooms, two full baths, five appliances, secured parking, 465-9715.

MOST LUXURIOUS DUPLEX, 2,600'. Walking distance to U of A, 7719 - 111 Street. No pets, non-smokers. Computer room, four bedrooms, fireplace, vacuum cleaner system, master bedroom jacuzzi, three showers. Huge kitchen, Jenn-Air, microwave. Large dining room, outside deck. Front balcony, air circulation system, many extras. Single garage. Villa Slavica, July 1st, 434-0509.

THE GARNEAU - 2000 sq ft executive condo on two levels. Hardwood floors, fully furnished. May 15 - July 31, 1999, \$1800/month. Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

RIVERBEND - FALCONER HEIGHTS, two storey executive, four bedrooms, unfinished basement. Den and family room on main floor. July 1, 1999. Lease. Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

LE MARCHAND TOWER - exquisite executive two bedroom condo, 2000 sq ft, fully furnished, \$1600/month. July 1, 1999-June 30, 2000. Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

DOWNTOWN FULLY FURNISHED with sundries, condo, one bedroom. Excellent view of river valley, airconditioned, security. Call Janet, (780) 441-6441, jennfra@compusmart.ab.ca

ATTENTION PROFESSIONALS AND PROFESSORS: turn key, renovated one bedroom, 117 Street, Jasper Avenue. Hang your clothes and start living. \$887 with lease, \$975 monthly. Call Janet, (780) 441-6441, jennfra@compusmart.ab.ca

NEAR U OF A, parks. Four bedrooms, five appliances, fireplace, no pets, nonsmokers. \$950/month, (780) 433-0870.

SHARE FURNISHED TWO BEDROOM APARTMENT with professional female. Excellent location. Short-term or longer. \$300.00, 435-0838.

WHITEMUD HILL - new executive home, three bedrooms, den, 2 1/2 baths, jacuzzi, blinds, fireplace, six appliances. Alarm system, double attached garage. No pets, non-smokers, \$1850/month. 436-4363.

EXECUTIVE FULLY FURNISHED THREE BEDROOMS, three bathrooms, two balconies, seven appliances. West end house for rent from September 1, 1999 till June 1, 2000. Please call (780) 481-7123.

PROFESSOR'S HOUSE AVAILABLE - Lendrum, one year sabbatical let from August 1999, suit family. Fully furnished, 4 bedrooms, 6 appliances, close to

bus stop, schools, University Farm. Quiet neighborhood, fenced backyard, garage, non-smokers, no pets. 430-7942.

ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - knowledgeable, trustworthy, realtor with Edmonton references. Will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. 250-383-7100, Lois Dutton, Duttons & Co. Ltd. #101 - 364 Moss Street, Victoria, B.C. V8V 4N1

TWO STOREY 1980 EXECUTIVE HOME in Riverbend. Stucco and red tile exterior. Quality construction with oak spiral staircase. Masonry fireplaces. Double drywalling, decks, established garden. Call owner, 435-6722.

ACCOMMODATIONS WANTED

HOUSESITTER, mature, non-smoking grad. Pets welcome, housesitting references, letter of agreement. Mark, 455-4351.

PHYSICIAN AND FAMILY require property in Windsor Park/Belgravia. Will sign lease June 1, 1999. Call Janet (780) 441-6441, jennfra@compusmart.ab.ca

PROFESSIONAL COUPLE with well-behaved and trained dog require nice home to rent in Windsor Park, Belgravia, McKernan, Garneau, Strathcona, Parkallen areas. Well qualified, non-smokers, lease. Call Janet (780) 441-6441, jennfra@compusmart.ab.ca

WANTED TO BUY - four bedroom home in University area, Grandview, Laurier Heights, possession 2-12 months, no agents. Please call 481-3931.

HOUSESITTER AVAILABLE SEPTEMBER 1 - mature, non-smoker, responsible graduate student. Pets welcome. Excellent references. Maureen, 439-8605.

GRAD STUDENT FAMILY, non-smokers, seeks house or apartment walking distance to campus for 99/00 year. Call 439-2492.

GOODS FOR SALE

CASH PAID for quality books. The Edmonton Book Store, 433-1781.

BALDWIN HAMILTON STUDIO PIANO. Excellent condition, \$3000 obo, 435-0155.

ROYAL GLENORA CLUB common share (value \$250, needed for membership) \$125. Cherrywood livingroom mantel piece, excellent condition, \$75, ghughes@phys.ualberta.ca, 492-3519.

SERVICES

TECH VERBATIM EDITING - APA, Chicago; medical terminology; on campus. Donna Maskell, 922-6263.

HOME CLEANING - Hardworking, bonded staff. Reasonable rates. Able Maids, 433-9697.

DAVID RICHARDS CARPENTRY. Certified journeyman, NAIT. Complete interior/exterior, residential, commercial renovations including plumbing/electrical. No job too big/small. References available. 436-6363.

CUSTOM FURNISHINGS AVAILABLE for executives and professionals requiring a home ready to go. For details call us at Western Relocation Services Ltd., 780-434-4629, jennfra@compusmart.ab.ca

HOUSECLEANING/GARDENING - expert, reliable housecleaner, gardener (teacher), will maintain your home/yard. Weekly, bi-weekly. Excellent references. 436-0894.

Catherine M. Fletcher D.D.S.

DENTIST

#980, 8215-112 Street
College Plaza 3
Edmonton, Alberta T6G 2C8
439-2266
e-mail: fletche1@planet.eon.net
www.fletcherDentist.ab.ca

Our Hours are:

Monday, Tuesday, Thursday
8:00 am - 5:00 pm
Wednesday 11:00 am - 7:00 pm
Friday by appointment

Go First Class!

Organizing an event is a formidable task for today's busy professionals. The University of Alberta Conference Centre can assist you with everything from booking meeting space, to providing registration services, to planning the menu for your banquet or reception. If you haven't met with us lately, stop by for a tour. You'll be pleasantly surprised at our first class facilities and services. For more info contact:

Conference Centre
Department of Housing and Food Services
University of Alberta, 44 Lister Hall
Edmonton, Alberta T6G 2H6
Tel: 403-492-4281
Fax: 403-492-7032
e-mail: conference.services@ualberta.ca
http://www.hfs.ualberta.ca/

 **Housing and Food Services**
University of Alberta



Lister Hall

- Extensively renovated main function rooms
- Six meeting rooms accommodating up to 280 people
- Internet ready facilities
- Breakfast, lunch or dinner meetings
- Examination and seminar rooms
- State of the art audiovisual equipment

Alumni House

- Beautifully renovated mansion overlooking the river valley
- Four renovated boardrooms accommodating 10 to 30 people each
- Unforgettable elegance for meetings, retreats, receptions and weddings

Theatres and Classrooms

- State of the art lecture theatres featuring internet access and satellite capabilities
- Numerous classrooms to meet all your needs

PLANNER



The University of Alberta is one of Canada's largest and most advanced full-service, research intensive universities with 8000 staff and over 30,000 students. Its vision, as it emerges from this century and enters the next, is to be indisputably recognized, nationally and internationally, as one of Canada's finest universities and amongst a handful of the world's best. The University has a substantial investment in lands and buildings.

Reporting to the Director of Capital and Strategic Planning Services, the Planner is part of a team of Planners and Technologists, working with the other units of Operations and Physical Resources, for the efficient short and long range planning, development and space management of the University of Alberta's land and facilities.

As an ideal candidate, you possess a university degree or equivalent education and experience, preferably in Architecture, Engineering, or Urban and Regional Planning. You also have 10+ years of experience in a related area and a proven track record in facility and project planning and management. An understanding of "best practices" and well developed project, management and facilitation skills are required. You are a team player, have a customer service orientation and garner client respect. You also have strong computer skills and are committed to continuous learning.

This Administrative Professional Officer position has a salary range of \$41,435 - \$62,159 (under review). The University provides a comprehensive benefits package.

To become a member of the University's team as it enters the 21st century, send your resume to Anurag Shourie at Davies Park, #904, 10235 - 101 Street, Edmonton, Alberta, T5J 3G1.
E-mail: search@daviespark.ab.ca

The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

Davies Park
Executive Search
Consultants to Management
Edmonton • Calgary



Associates: Vancouver, Toronto, Montreal and Ottawa
Visit our website at: www.daviespark.ab.ca

notices

Please send notices attention Folio 400 Athabasca Hall, University of Alberta, T6G 2E8 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

BOARD OF GOVERNORS' AWARD OF DISTINCTION

Nominations are now being accepted for the Board of Governors' Award of Distinction. Through this award, the Board of Governors will honor individuals and/or groups who by their actions have made a contribution in some exceptional manner to link the University of Alberta with the municipal, provincial, national and/or international community. Up to three awards may be given in any year.

The competition is open to groups and/or individuals in Alberta, Canada and other countries including alumni or non-alumni of the University of Alberta. Members of the academic and support staff are eligible, however, university committee work and work for which an employee receives remuneration will not be considered. Members of the Board of Governors, the Senate and the university administration cannot be nominated for the award until one year after their term expires.

The criteria for the Board of Governors' Award of Distinction are: 1) creating positive awareness of the University of Alberta with the community by bringing honor to, or enhancing the reputation of, the university; 2) promoting goodwill between the U of A and the community through exceptional volunteer service to the community which is above and beyond the requirements of one's position and which involves an outstanding contribution of personal time and effort for the benefit of others; and 3) furthering the aims of the University of Alberta with integrity in creating partnerships (social, cultural, economic).

Nomination information may be obtained from the Office of the Board of Governors, 3-31 University Hall, University of Alberta, Edmonton T6G 2J9; phone 492-4954, fax 492-2726.

Nomination deadline is June 30, 1999.

Alberta's Princess Bride

There's no fencing around the U of A's Michelle Bradley and her motivation in life

By Dan Carle

Little did she know, seven years ago, she would find something which piqued her interest then pierced her heart, all the while prodding her aggression.

Michelle Bradley is no fence-sitter about being a swashbuckler. She's a U of A student who enjoys a balanced soul—now that going for a "blade" doesn't mean "roller" but it does mean something more than just recreation.

"My mom thought that since I was getting older, I should take up something with self-defence—you know, karate, fencing, something of that sort. So she gave me an option—either karate or fencing—and I thought between the two, fencing was a little more vicious," said the 21-year-old articulate philosophy major. The sport, however, is actually one of the safest going, relying on head-to-toe Kevlar and canvas as protection and requiring quickness and strategy for success.

Bradley has enjoyed self-taught success since age 14, describing herself as a recreational fencer.

She works out with the University of Alberta Fencing club twice weekly, when she's



Bradley lunges towards her opponent during the recent National Fencing Championships.

not studying to write her Law School Admissions Test this month. And she recently competed at the Canadian Fencing Championships at the Kinsmen Sport Centre but ended up being foiled. She went 1-4 in her pool and did not qualify as one of the top-32 at the direct elimination tournament which drew 800 competitors from across Canada.

Bradley's situation was unique but her finish was still like a shot to the heart.

"I am so disappointed. I am just falling back to my old ways. Maybe I am mesmerized by having to compete in the big competition... maybe I've been training too little, maybe I have been training too much," she said. "It's hard to just immerse yourself back to the competitive mode. Maybe I'm more in the recreational mode."

I wasn't really into sports before I started fencing. I dabbled a little bit here and there... but this is my addiction. Nothing else can compare.

Bradley is proof that barbarism can be diversion.

"I want to wind up and just hit my opponent," said Bradley. "I'm sounding barbaric but I am more of an offensive fencer than a defensive fencer."

In life she is anything but offensive. Bradley is slight of frame but brave of heart, juggling studies now to one day stand and deliver in court.

"I did the typical figure skating and ballet. I wasn't really into sports before I started fencing. I dabbled a little bit here and there... but this is my addiction. Nothing else can compare. I'm too short for basketball," she said. So true. She's 5'1".

"Fencing is like an addiction. It's with you for life and it's in your blood. I'm not quitting anytime soon."

Fencing hasn't quit as one of the world's oldest sports, with beginnings in France in the 1500s and in Canada during the late 1880s. It's still alive and well at the U of A after Francis Wetterberg established the University of Alberta Golden Blades 50 years ago. He fenced well into his 80s.

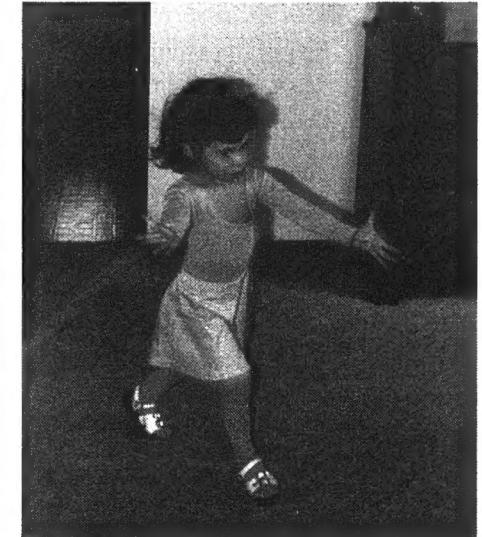
For Bradley, fencing is more than sport.

"It helps me release my aggression—the aggression that's pent up from studying," she said. "You watch the fencing movies and you can dissect every scene: to see whether or not the person has good form."

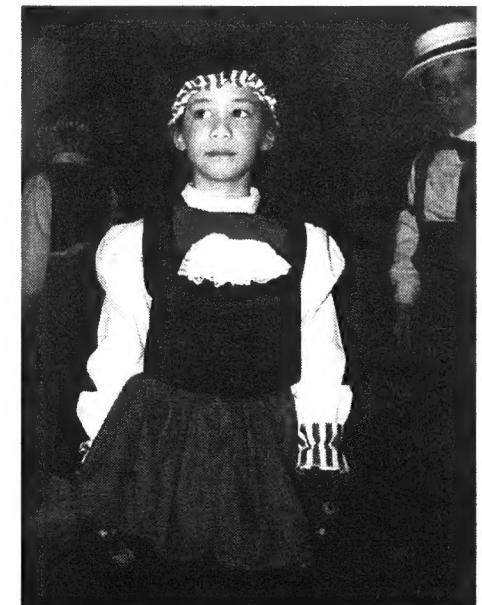
Bradley's form is not in the national elite. She says the only reason she drew the short blade for competition at the Canadian championship was because they were in Edmonton.

But listening to the passion she brings to the strip—the copper mat which grounds her electric foil and allows it to beep during hits—has been one big duel with destiny, and destiny won.

"It's a very alluring sport. It's absolutely cool." ■



Bradley tried ballet...



...and figure skating, but fencing was in her blood.



Fencing is one of the safest sports around because of the head-to-toe protective gear.

Action photos: Dave Williamson

folio **back page**